

## ABSTRACT

An ADSL remote terminal end transceiver unit synchronizes transmission of upstream and downstream data between TCM-ISDN communication and ADSL communication, and in addition, provides NEXT tables (155, 157) and FEXT tables (154, 156), in which are stored equalizing coefficients appropriate for a NEXT noise and a FEXT noise generated when data travel upstream and downstream in TCM-ISDN communication, to equalizers TEQ (142) and FEQ (145) of the ADSL remote terminal end transceiver unit. As a consequence, even when the FEXT noise and the NEXT noise are generated one after another in TCM-ISDN communication, the TEQ (142) and the FEQ (145) can switch between the NEXT table and the FEXT table, achieving TEQ and FEQ characteristics which are most appropriate for the respective noises.

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